

### ABSTRACT OF THE DISCLOSURE

A delivery system that includes a bone growth promoting material encapsulated within a water absorptive gelatinizable covering is used to promote bone growth in order to repair a bone defect and/or strengthen a weakened bone region. The delivery system may be shaped and sized in order to fit within a bleeding wound (*e.g.* one that is formed in the gingiva when a tooth is extracted). The covering may be formed of a gelatinizable gauze that forms a gel-like material when moistened with water. The delivery system is contained within a moisture resistant package prior to use. Alternatively, the delivery system comprises a bone growth promoting material and thickening agent contained within a syringe that, upon adding water, form a viscous gel or stiff putty.

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